

16/5/1 (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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DIALOG
08/243,342
3/2/97
CHK'D, AM

123282931 CA: 123(21)282931m CONFERENCE PROCEEDING
Macrophage migration inhibitory factor is a cytokine secreted by
the pituitary after endotoxin stimulation

AUTHOR(S): Bernhagen, J.; Calandra, T.; Mitchell, R. A.;
Voelter, W.; Cerami, A.; Bucala, R.

LOCATION: Picower Institute Medical Research, Manhasset, NY,
11030, USA JOURNAL: Cytokines Hemopoiesis, Oncol., Immunol. III
EDITOR: Freund, Mathias (Ed), DATE: 1994 PAGES: 557-65 CODEN:
61SXA4 LANGUAGE: English PUBLISHER: Springer, Berlin, Germany

SECTION:

CA215000 Immunochemistry

CA202XXX Mammalian Hormones

IDENTIFIERS: review macrophage migration inhibitory factor
pituitary, endotoxin macrophage migration inhibitory factor
review

DESCRIPTORS:

Pituitary gland...

endotoxin stimulates macrophage migration inhibitory factor
secretion by

Lymphokines and Cytokines, migration-inhibiting factor...

endotoxin stimulates pituitary secretion of
Toxins, endo-...

pituitary secretes macrophage migration inhibitory factor
after stimulation by
Macrophage...

pituitary secretes migration inhibitory factor after
endotoxin stimulation

16/5/2 (Item 2 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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122184843 CA: 122(15)184843u JOURNAL
MIF, a previously unrecognized pituitary hormone and macrophage
cytokine, is a pivotal mediator in endotoxic shock

AUTHOR(S): Bucala, Richard

LOCATION: The Picower Institute for Medical Research, New York,
NY, USA JOURNAL: Circ. Shock DATE: 1994 VOLUME: 44 NUMBER: 1
PAGES: 35-9 CODEN: CRSHAG ISSN: 0092-6213 LANGUAGE: English

SECTION:

CA215000 Immunochemistry

CA202XXX Mammalian Hormones

IDENTIFIERS: review pituitary macrophage migration inhibitory
factor, endotoxic shock pituitary MIF review

DESCRIPTORS:

Lymphokines and Cytokines, migration-inhibiting factor...

Pituitary gland... Shock, endotoxin...

macrophage-migration inhibitory factor of pituitary gland as
mediator in endotoxic shock

16/5/3 (Item 3 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
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122178382 CA: 122(15)178382b PATENT
Inhibition of migration inhibitory factor in the treatment of
diseases involving cytokine-mediated toxicity
INVENTOR(AUTHOR): Bucalã, Richard J.; Mitchell, Robert A.;
Bernhagen, Jurgen; Calandra, Thierry F.; Cerami, Anthony
LOCATION: USA
ASSIGNEE: Picower Institute for Medical Research
PATENT: PCT International ; WO 9426307 A1 DATE: 941124
APPLICATION: WO 94US5433 (940516) *US 63399 (930517)
PAGES: 148 pp. CODEN: PIXXD2 LANGUAGE: English CLASS:
A61K-039/395A; C07K-015/28B; C12N-005/12B DESIGNATED COUNTRIES:
AU; BB; BG; BR; BY; CA; CN; CZ; FI; GE; HU; JP; KG; KR; KZ; LK;
LV; MD; MG; MN; MW; NO; NZ; PL; RO; RU; SD; SI; SK; TJ; UA; UZ
DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FR ; GB; GR; IE; IT;
LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE;
SN; TD; TG
SECTION:
CA201007 Pharmacology
CA215XXX Immunochemistry
IDENTIFIERS: migration inhibiting factor cytokine mediated
toxicity DESCRIPTORS:
Nucleotides,oligo-,biological studies...
antisense; inhibition of migration inhibitory factor in
treatment of diseases involving cytokine-mediated toxicity
Body fluid...
detn. of inhibition of migration inhibitory factor in
treatment of diseases involving cytokine-mediated toxicity in
Deoxyribonucleic acid sequences,complementary...
for migration-inhibiting factor from murine and human cells
Gene,animal...
for migration-inhibitory factor and its receptor; inhibition
of migration inhibitory factor in treatment of diseases
involving cytokine-mediated toxicity
Antibodies... Autoimmune disease... Cachexia...
Corticosteroids,gluco-,biological studies... Inflammation
inhibitors... Inflammation... Interferons,.gamma....
Lipopolysaccharides... Lymphokine and cytokine
receptors,migration-inhibiting factor... Lymphokines and
Cytokines,cytokine formation-inhibiting factor... Lymphokines and
Cytokines,interleukin 1... Lymphokines and Cytokines,interleukin
1 receptor antagonist... Lymphokines and
Cytokines,migration-inhibiting factor... Lymphokines and
Cytokines,tumor necrosis factor-.alpha.... Macrophage...
Pituitary gland,anterior lobe... Receptors,cytokine,
migration-inhibiting factor... Ribozymes... Shock,septic...
Shock,toxic shock syndrome... Steroids,biological studies...
inhibition of migration inhibitory factor in treatment of
diseases involving cytokine-mediated toxicity
Protein sequences...

of migration-inhibiting factor from murine and human cells
Nucleotides, oligo-, biological studies...

triple-helix-forming; inhibition of migration inhibitory
factor in treatment of diseases involving cytokine-mediated
toxicity Infection...

viral and bacterial; inhibition of migration inhibitory
factor in treatment of diseases involving cytokine-mediated
toxicity CAS REGISTRY NUMBERS:

149200-15-7 158130-48-4 amino acid sequence; inhibition of
migration inhibitory factor in treatment of diseases
involving cytokine-mediated toxicity
57-83-0 biological studies, inhibition of migration inhibitory
factor in treatment of diseases involving cytokine-mediated
toxicity 50-02-2 50-23-7 52-39-1 53-02-1 58-22-0 1719-79-5
84371-65-3 inhibition of migration inhibitory factor in
treatment of diseases involving cytokine-mediated toxicity
125522-76-1 161573-32-6 nucleotide sequence; inhibition of
migration inhibitory factor in treatment of diseases
involving cytokine-mediated toxicity

16/5/4 (Item 4 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
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122072120 CA: 122(7)72120z JOURNAL
Identification of MIF as a new pituitary hormone and macrophage
cytokine and its role in endotoxic shock
AUTHOR(S): Bucala, Richard
LOCATION: The Picower Institute for Medical Research, New York
11030, USA JOURNAL: Immunol. Lett. DATE: 1994 VOLUME: 43
NUMBER: 1,2 PAGES: 23-6 CODEN: IMLED6 ISSN: 0165-2478
LANGUAGE: English

SECTION:
CA202000 Mammalian Hormones
IDENTIFIERS: pituitary hormone migration inhibiting factor
review, endotoxic shock migration inhibiting factor review,
macrophage migration inhibiting factor review
DESCRIPTORS:
Lymphokines and Cytokines, migration-inhibiting factor...
as macrophage cytokine and pituitary hormone and its role in
endotoxic shock
Shock, endotoxin...
macrophage migration-inhibiting factor involvement in
Pituitary hormones...
macrophage migration-inhibiting factor as

16/5/5 (Item 5 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
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121298808 CA: 121(25)298808w JOURNAL
Purification, Bioactivity, and Secondary Structure Analysis of

Mouse and Human Macrophage Migration Inhibitory Factor (MIF)
AUTHOR(S): Bernhagen, Jorgen; Mitchell, Robert A.; Calandra,
Thierry; Voelter, Wolfgang; Cerami, Anthony; Bucala, Richard
LOCATION: Picower Institute for Medical Research, Manhasset,
NY, 11030, USA

JOURNAL: Biochemistry DATE: 1994 VOLUME: 33 NUMBER: 47
PAGES: 14144-55 CODEN: BICHAW ISSN: 0006-2960 LANGUAGE:
English SECTION:
CA215005 Immunochemistry

IDENTIFIERS: macrophage migration inhibitory factor human
mouse, sequence migration inhibitory factor cytokine cDNA

DESCRIPTORS:
Deoxyribonucleic acid sequences, complementary...
for macrophage migration inhibitory factor of human and mouse
Protein sequences...

of macrophage migration inhibitory factor of human and mouse
Conformation and Conformers, secondary... Lymphokines and
Cytokines, migration-inhibiting factor... Mouse...

purifn. and bioactivity and secondary structure of macrophage
migration inhibitory factor

CAS REGISTRY NUMBERS:
149200-15-7 158130-48-4 amino acid sequence; purifn. and
bioactivity and secondary structure of macrophage migration
inhibitory factor 150426-13-4 150426-49-6 nucleotide sequence;
purifn. and bioactivity and secondary structure of macrophage
migration inhibitory factor

16/5/6 (Item 6 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
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121263724 CA: 121(22)263724p PATENT
Metal colloids for reducing toxicity of biologically active
factors INVENTOR(AUTHOR): Tamarkin, Lawrence; Paciotti, Giulio
Franco LOCATION: USA

ASSIGNEE: Assay Research, Inc.
PATENT: PCT International ; WO 9421288 A1 DATE: 940929
APPLICATION: WO 94US3177 (940318) *US 33385 (930318)
PAGES: 27 pp. CODEN: PIXXD2 LANGUAGE: English CLASS:
A61K-039/00A; A61K-009/14B; A61K-033/38B; A61K-033/24B;
A61K-045/05B

DESIGNATED COUNTRIES: AT; AU; BB; BG; BR; BY; CA; CH; CN; CZ;
DE; DK; ES; FI; GB; HU; JP; KP; KR; KZ; LK; LU; LV; MG; MN; MW;
NL; NO; NZ; PL; PT; RO; RU; SD; SE; SK; UA; UZ; VN DESIGNATED
REGIONAL: AT; BE; CH; DE; DK; ES; FR ; GB; GR; IE; IT; LU; MC;
NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD;
TG

SECTION:
CA263006 Pharmaceuticals
CA204XXX Toxicology
IDENTIFIERS: metal colloid drug detoxication
DESCRIPTORS:

Blood-group substances...
carbohydrates of; metal colloids for reducing toxicity of

biol. active factors

Staphylococcus...

enterotoxin of; metal colloids for reducing toxicity of biol.
active factors

Microorganism, pathogenic...

glycoproteins of; metal colloids for reducing toxicity of
biol. active factors

Animal growth regulators... Animal growth regulators, angiogenic
factors... Animal growth regulators, epithelial cell growth
factors... Animal growth regulators, .alpha.-transforming growth
factors... Animal growth regulators, .beta.-transforming growth
factors... Blood-group substances, Rh ... Detoxication...

Glycophospholipids, lipid A... Immunomodulators...

Interferons, .alpha./.beta.... Interferons, .gamma....

Lipopolysaccharides... Lymphokines and Cytokines... Lymphokines
and Cytokines, cytokine formation-inhibiting factor... Lymphokines
and Cytokines, interleukin 1... Lymphokines and

Cytokines, interleukin 11... Lymphokines and Cytokines, interleukin

12... Lymphokines and Cytokines, interleukin 13... Lymphokines and

Cytokines, interleukin 2... Lymphokines and Cytokines, interleukin

3... Lymphokines and Cytokines, interleukin 4... Lymphokines and

Cytokines, interleukin 5... Lymphokines and Cytokines, interleukin

6... Lymphokines and Cytokines, interleukin 7... Lymphokines and

Cytokines, interleukin 8... Lymphokines and

Cytokines, lymphotoxin... Lymphokines and

Cytokines, migration-inhibiting factor... Lymphokines and

Cytokines, tumor necrosis factor... Neoplasm inhibitors...

Pharmaceuticals... Proteins, specific or class, heat-shock...

Sols, hydro-... Toxins, endo-...

metal colloids for reducing toxicity of biol. active factors

Carbohydrates and Sugars, biological studies...

of blood-group substances; metal colloids for reducing

toxicity of biol. active factors

Glycoproteins, biological studies...

of pathogens; metal colloids for reducing toxicity of biol.
active factors

Toxins, entero-, B...

of Staphylococcus; metal colloids for reducing toxicity of

biol. active factors

CAS REGISTRY NUMBERS:

7440-22-4 7440-57-5 biological studies, colloidal; metal
colloids for reducing toxicity of biol. active factors

9001-84-7 62031-54-3 81627-83-0 83869-56-1 143011-72-7 metal
colloids for reducing toxicity of biol. active factors

16/5/7 (Item 7 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

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120267846 CA: 120(21)267846g JOURNAL

The Macrophage is an Important and Previously Unrecognized
Source of Macrophage Migration Inhibitory Factor

AUTHOR(S): Calandra, Thierry; Bernhagen, Jurgen; Mitchell,

Robert A.; Bucala, Richard

LOCATION: Picower Inst. Med. Res., Manhasset, NY, 11030, USA
JOURNAL: J. Exp. Med. DATE: 1994 VOLUME: 179 NUMBER: 6 PAGES:
1895-902 CODEN: JEMEA V ISSN: 0022-1007 LANGUAGE: English

SECTION:

CA215005 Immunochemistry

IDENTIFIERS: macrophage migration inhibitory factor macrophage
DESCRIPTORS:

Gene, animal...

for macrophage migration inhibitory factor, expression of, in
macrophages

Lymphokines and Cytokines, migration-inhibiting factor...

formation of, by macrophages

Macrophage...

macrophage migration inhibitory factor secretion by
Interferons, gamma.... Lipopolysaccharides... Lymphokines and
Cytokines, tumor necrosis factor-.alpha....

macrophage migration inhibitory factor secretion by
macrophages stimulation by

16/5/8 (Item 8 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

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120028462 CA: 120(3)28462x JOURNAL
MIF is a pituitary-derived cytokine that potentiates lethal
endotoxemia AUTHOR(S): Bernhagen, J.; Calandra, T.; Mitchell,
R. A.; Martin, S. B.; Tracey, K. J.; Voelter, W.; Manogue, K. R.;
Cerami, A.; Bucala, R. LOCATION: Picower Inst. Med. Res.,
Manhasset, NY, 11030, USA JOURNAL: Nature (London) DATE: 1993
VOLUME: 365 NUMBER: 6448 PAGES: 756-9 CODEN: NATUAS ISSN:
0028-0836 LANGUAGE: English

SECTION:

CA214003 Mammalian Pathological Biochemistry

CA215XXX Immunochemistry

IDENTIFIERS: macrophage migratory inhibition factor pituitary
endotoxemia DESCRIPTORS:

Blood serum...

macrophage migration inhibitory factor of, lipopolysaccharide
effect on, endotoxemia in relation to
Pituitary gland, anterior lobe...

macrophage migration inhibitory factor secretion by,
bacterial lipopolysaccharide effect on, endotoxemia in
relation to Lipopolysaccharides...

macrophage migration inhibitory factor secretion by pituitary
gland anterior lobe cells response to bacterial, endotoxemia
in relation to Shock, septic...

macrophage migration inhibitory factor secretion by pituitary
gland anterior lobe cells response to bacterial
lipopolysaccharide in relation to
Sepsis and Septicemia, endotoxemia...

macrophage migration inhibitory factor secretion by pituitary
gland anterior lobe cells response to bacterial

lipopolysaccharides in relation to
Lymphokines and Cytokines, migration-inhibiting factor...
secretion of, by pituitary gland anterior lobe cells,
bacterial lipopolysaccharide effect on, endotoxemia in
relation to

16/5/9 (Item 1 from file: 5)
DIALOG(R) File 5: BIOSIS PREVIEWS(R)
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11147752 BIOSIS Number: 97347752
Purification and characterization of the cytokine macrophage
migration inhibitory factor (MIF)
Bernhagen J; Calandra T; Mitchell R A; Voelter W; Cerami A;
Bucala R Picower Inst. Med. Res., Manhasset, NY 11030, USA
FASEB Journal 8 (7). 1994. A1417.
Full Journal Title: 85th Annual Meeting of the American
Society for Biochemistry and Molecular Biology, Washington, D.C.,
USA, May 21-25, 1994. FASEB Journal
ISSN: 0892-6638
Language: ENGLISH
Document Type: CONFERENCE PAPER
Print Number: Biological Abstracts/RRM Vol. 046 Iss. 008 Ref.
125470 Descriptors/Keywords: MEETING ABSTRACT; HUMAN; MOLECULAR
STRUCTURE; SDS-POLYACRYLAMIDE GEL ELECTROPHORESIS; ANALYTICAL
METHOD; PURIFICATION METHOD
Concept Codes:
*10054 Biochemical Methods-Proteins, Peptides and Amino Acids
*10504 Biophysics-General Biophysical Techniques
*10506 Biophysics-Molecular Properties and Macromolecules
*15001 Blood, Blood-Forming Organs and Body Fluids-General;
Methods *15008 Blood, Blood-Forming Organs and Body
Fluids-Lymphatic Tissue and Reticuloendothelial System
*17002 Endocrine System-General
00520 General Biology-Symposia, Transactions and Proceedings
of Conferences, Congresses, Review Annuals
10064 Biochemical Studies-Proteins, Peptides and Amino Acids
10068 Biochemical Studies-Carbohydrates
Biosystematic Codes:
86215 Hominidae
Super Taxa:
Animals; Chordates; Vertebrates; Mammals; Primates; Humans

16/5/10 (Item 2 from file: 5)
DIALOG(R) File 5: BIOSIS PREVIEWS(R)
(c) 1997 BIOSIS. All rts. reserv.

11147751 BIOSIS Number: 97347751
MIF is a cytokine induced by glucocorticoids and overcomes
glucocorticoid-inhibition of TNF-alpha secretion
Calandra T; Bernhagen J; Mitchell R; Cerami A; Bucala R
Picower Inst. Med. Res., Manhasset, NY 11030, USA
FASEB Journal 8 (7). 1994. A1417.
Full Journal Title: 85th Annual Meeting of the American

Society for Biochemistry and Molecular Biology, Washington, D.C.,
USA, May 21-25, 1994. FASEB Journal

ISSN: 0892-6638

Language: ENGLISH

Document Type: CONFERENCE PAPER

Print Number: Biological Abstracts/RRM Vol. 046 Iss. 008 Ref.

125469 Descriptors/Keywords: MEETING ABSTRACT; MOUSE; MIGRATION
INHIBITORY FACTOR; TUMOR NECROSIS FACTOR-ALPHA; MACROPHAGE;
INFLAMMATION

Concept Codes:

*02506 Cytology and Cytochemistry-Animal
*13004 Metabolism-Carbohydrates
*13012 Metabolism-Proteins, Peptides and Amino Acids
*15004 Blood, Blood-Forming Organs and Body Fluids-Blood Cell
Studies *15008 Blood, Blood-Forming Organs and Body
Fluids-Lymphatic Tissue and Reticuloendothelial System
*17002 Endocrine System-General
*17004 Endocrine System-Adrenals
00520 General Biology-Symposia, Transactions and Proceedings
of Conferences, Congresses, Review Annuals
10064 Biochemical Studies-Proteins, Peptides and Amino Acids
10067 Biochemical Studies-Sterols and Steroids
10068 Biochemical Studies-Carbohydrates
12508 Pathology, General and Miscellaneous-Inflammation and
Inflammatory Disease

Biosystematic Codes:

86375 Muridae

Super Taxa:

Animals; Chordates; Vertebrates; Nonhuman Vertebrates;
Mammals; Nonhuman Mammals; Rodents

16/5/11 (Item 3 from file: 5)
DIALOG(R)File 5:BIOSIS PREVIEWS(R)
(c) 1997 BIOSIS. All rts. reserv.

11104897 BIOSIS Number: 97304897

MIF, a previously unrecognized macrophage cytokine, induces
macrophages to secrete TNF-alpha and overcomes
dexamethasone-suppression of TNF secretion

Calandra T; Bernhagen J; Mitchell R A; Cerami A; Bucala R
Picower Inst. Med. Res., Manhasset, NY, USA
Clinical Research 42 (2). 1994. 138A.

Full Journal Title: Meeting of the American Federation for
Clinical Research, Baltimore, Maryland, USA, April 29-May 2,
1994. Clinical Research

ISSN: 0009-9279

Language: ENGLISH

Document Type: CONFERENCE PAPER

Print Number: Biological Abstracts/RRM Vol. 046 Iss. 007 Ref.

110250 Descriptors/Keywords: MEETING ABSTRACT; MEETING POSTER;
MOUSE; TUMOR NECROSIS FACTOR-ALPHA; LIPOPOLYSACCHARIDE; T
LYMPHOCYTE; INFLAMMATION; TISSUE INVASION

Concept Codes:

*02506 Cytology and Cytochemistry-Animal
 *12508 Pathology, General and Miscellaneous-Inflammation and
 Inflammatory Disease
 *15004 Blood, Blood-Forming Organs and Body Fluids-Blood Cell
 Studies *15008 Blood, Blood-Forming Organs and Body
 Fluids-Lymphatic Tissue and Reticuloendothelial System
 *17002 Endocrine System-General
 *34508 Immunology and Immunochemistry-Immunopathology, Tissue
 Immunology
 00530 General Biology-Information, Documentation, Retrieval
 and Computer Applications
 10060 Biochemical Studies-General
 10064 Biochemical Studies-Proteins, Peptides and Amino Acids
 10066 Biochemical Studies-Lipids
 10068 Biochemical Studies-Carbohydrates
 Biosystematic Codes:
 86375 Muridae
 Super Taxa:
 Animals; Chordates; Vertebrates; Nonhuman Vertebrates;
 Mammals; Nonhuman Mammals; Rodents

16/5/12 (Item 4 from file: 5)
 DIALOG(R)File 5:BIOSIS PREVIEWS(R)
 (c) 1997 BIOSIS. All rts. reserv.

10220068 BIOSIS Number: 45020068
 MACROPHAGE MIGRATION INHIBITORY FACTOR MIF IS A CYTOKINE
 SECRETED BY THE PITUITARY AFTER ENDOTOXIN STIMULATION
 BERNHAGEN J; CALANDRA T; MITCHELL R A; TRACEY K J; CERAMI A;
 BUCALA R PICOWER INST. MED. RES., MANHASSET, NY 11030, USA.
 JOINT MEETING OF THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS AND
 THE CLINICAL IMMUNOLOGY SOCIETY, DENVER, COLORADO, USA, MAY
 21-25, 1993. J IMMUNOL 150 (8 PART 2). 1993. 126A. CODEN:
 JOIMA

Language: ENGLISH
 Document Type: CONFERENCE PAPER
 Descriptors/Keywords: ABSTRACT MURINE PITUITARY CELL LINE
 SYSTEMIC INFLAMMATION
 Concept Codes:
 *02506 Cytology and Cytochemistry-Animal
 *12508 Pathology, General and Miscellaneous-Inflammation and
 Inflammatory Disease
 *15008 Blood, Blood-Forming Organs and Body Fluids-Lymphatic
 Tissue and Reticuloendothelial System
 *17002 Endocrine System-General
 *17014 Endocrine System-Pituitary
 *34508 Immunology and Immunochemistry-Immunopathology, Tissue
 Immunology
 00520 General Biology-Symposia, Transactions and Proceedings
 of Conferences, Congresses, Review Annuals
 10060 Biochemical Studies-General
 10064 Biochemical Studies-Proteins, Peptides and Amino Acids
 Biosystematic Codes:

86375 Muridae
Super Taxa:
Animals; Chordates; Vertebrates; Nonhuman Vertebrates;
Mammals; Nonhuman Mammals; Rodents

16/5/13 (Item 5 from file: 5)
DIALOG(R)File 5:BIOSIS PREVIEWS(R)
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10204208 BIOSIS Number: 45004208
IDENTIFICATION OF MACROPHAGE MIGRATION INHIBITORY FACTOR MIF AS
AN LPS-INDUCED PITUITARY PROTEIN IN-VITRO AND IN-VIVO
BERNHAGEN J; MITCHELL R A; TRACEY K J; MARTIN S B; MANOGUE K R;
VOELTER W ; CERAMI A; BUCALA R
PICOWER INST. MED. RES., MANHASSET, NY 11030, USA.
KEYSTONE SYMPOSIUM ON CYTOKINES AND CYTOKINE RECEPTORS: FROM
CLONING TO THE CLINIC, KEYSTONE, COLORADO, USA, JANUARY
31-FEBRUARY 7, 1993. J CELL BIOCHEM SUPPL 0 (17 PART B). 1993.
86. CODEN: JCBSD

Language: ENGLISH
Document Type: CONFERENCE PAPER
Descriptors/Keywords: ABSTRACT MURINE CYTOKINE BIOLOGICAL EFFECT
HOST RESPONSE INFLAMMATION NEUROENDOCRINE AXIS

Concept Codes:

*13006 Metabolism-Lipids
*13012 Metabolism-Proteins, Peptides and Amino Acids
*15008 Blood, Blood-Forming Organs and Body Fluids-Lymphatic
Tissue and Reticuloendothelial System
*17002 Endocrine System-General
*17014 Endocrine System-Pituitary
*17020 Endocrine System-Neuroendocrinology (1972-)
*20504 Nervous System-Physiology and Biochemistry
*31000 Physiology and Biochemistry of Bacteria
*36002 Medical and Clinical Microbiology-Bacteriology
10064 Biochemical Studies-Proteins, Peptides and Amino Acids
10066 Biochemical Studies-Lipids
22501 Toxicology-General; Methods and Experimental

Biosystematic Codes:

05000 Bacteria-General Unspecified (1992-)
86375 Muridae

Super Taxa:
Microorganisms; Bacteria; Eubacteria; Animals; Chordates;
Vertebrates; Nonhuman Vertebrates; Mammals; Nonhuman Mammals;
Rodents

16/5/14 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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08013517 94373361
Macrophage migration inhibitory factor is a neuroendocrine
mediator of endotoxaemia.
Bernhagen J; Calandra T; Cerami A; Bucala R

Picower Institute for Medical Research, Manhasset, NY 11030.
Trends Microbiol (ENGLAND) Jun 1994, 2 (6) p198-201, ISSN
0966-842X Journal Code: B1N

Languages: ENGLISH

Document type: JOURNAL ARTICLE; REVIEW; REVIEW, TUTORIAL
JOURNAL ANNOUNCEMENT: 9412

Subfile: INDEX MEDICUS

The cytokine macrophage migration inhibitory factor (MIF) is a major protein constituent of the anterior pituitary gland released into the bloodstream during endotoxaemia. For many years, MIF had been thought to be a T cell product associated with delayed-type hypersensitivity reactions. The identification of MIF as a pituitary 'stress' hormone provides an important link in the regulation of systemic inflammatory responses by the central nervous system. (30 Refs.)

Tags: Animal; Human

Descriptors: *Bacterial Infections--Metabolism--ME;
*Endotoxins--Blood --BL; *Macrophage Migration-Inhibitory
Factors--Physiology--PH; *Pituitary Gland--Metabolism--ME;
Bacterial Infections--Blood--BL; Macrophages
--Metabolism--ME; Mice

CAS Registry No.: 0 (Endotoxins); 0 (Macrophage
Migration-Inhibitory Factors).

16/5/15 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 1997 European Patent Office. All rts. reserv.

00315565

**ORDER fax of complete patent from KR SourceOne. See HELP
ORDER348** Water-insolubilized cytokines.

Wasserunlosliche Cytokine.

Cytokines rendues insolubles dans l'eau.

PATENT ASSIGNEE:

Takeda Chemical Industries, Ltd., (204703), 1-1, Doshomachi
4-chome, Chuo-ku, OSAKA, (JP), (applicant designated states:
AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

Mikura, Yasushi, 30-11, Senriyamahigashi 4-chome Suita, Osaka
565, (JP) Shimizu, Hisayoshi, 6-20, Higashiohta 3-chome
Ibaraki, Osaka 567, (JP) Toguchi, Hajime, 7-20, Koushienguchi
3-chome Nishinomiya, Hyogo 663, (JP) Sato, Jun, 19-301, 5
Aoki-cho Nishinomiya, Hyogo 662, (JP) LEGAL REPRESENTATIVE:

Laredo, Jack Joseph et al (32841), Elkington and Fife Prospect
House 8 Pembroke Road, Sevenoaks, Kent TN13 1XR, (GB)

PATENT (CC, No, Kind, Date): EP 307097 A2 890315 (Basic)
EP 307097 A3 891011

EP 307097 B1 930609

APPLICATION (CC, No, Date): EP 88307610 880817;

PRIORITY (CC, No, Date): JP 87224381 870908

DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; GR; IT; LI; LU;
NL; SE INTERNATIONAL PATENT CLASS: A61K-037/02; A61K-037/66;

CITED PATENTS (EP A): EP 230647 A; EP 138216 A; EP 281299 A; EP

140255 A; EP 251631 A; WO 8300150 A

ABSTRACT EP 307097 A2

Cytokines are water-insolubilized by acting a physiologically adaptable protein or high molecular organic acid on a cytokine, and thus obtained water-insolubilized cytokines retains physiological activity, and therefore, the water-insolubilized cytokines are useful as sustained release injections.

ABSTRACT WORD COUNT: 40

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*Assignee: 891115 A2 Applicant (transfer of rights)
(change): TAKEDA CHEMICAL INDUSTRIES,
LTD. (204704) 3-6, Doshomachi 2-chome
Chuo-ku Osaka (JP) (applicant)
designated states:

AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;LU;NL;SE) *Assignee: 891115
A2 Previous applicant in case of transfer of
rights (change): Takeda Chemical Industries,
Ltd. (204703) 27, Doshomachi 2-chome Higashi-ku
Osaka-shi Osaka-fu (JP) (applicant)
designated states:

AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;LU;NL;SE) Examination: 900516
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*Assignee: 920408 A2 Applicant (name, address) (change)
*Assignee: 920930 A2 Applicant (transfer of rights)
(change): Takeda Chemical Industries,
Ltd. (204703) 1-1, Doshomachi 4-chome
Chuo-ku, OSAKA (JP) (applicant)
designated states:

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SPEC B	(English)	6441	
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Total word count - document B			7021
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DIALOG(R) File 357:Derwent Biotechnology Abs

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174831 DBA Accession No.: 95-01652 PATENT

Treating conditions involving cytokine-mediated toxicity - using antisense, ribozyme or triple helix agent specific for migration inhibitory factor or migration inhibitory factor receptor; transgenic animal and monoclonal antibody production

AUTHOR: Bucala R J; Mitchell R A; Bernhagen J; Calandra T F; Cerami A PATENT ASSIGNEE: Picower-Inst.Med.Res. 1994

PATENT NUMBER: WO 9426307 PATENT DATE: 941124 WPI ACCESSION NO.: 95-006362 (9501)

PRIORITY APPLIC. NO.: US 63399 APPLIC. DATE: 930517

NATIONAL APPLIC. NO.: WO 94US5433 APPLIC. DATE: 940516

LANGUAGE: English

ABSTRACT: A new method for therapy of a condition involving cytokine-mediated toxicity involves administration of a migration inhibitory factor-inhibitor (MIF-inhibitor) or MIF-antagonist (e.g. small organic molecule, soluble MIF receptor or anti-receptor antibody), an agent which inhibits MIF gene expression (e.g. an antisense agent, ribozyme, triple helix component or steroid), an agent which inhibits MIF receptor gene expression (e.g. an antisense agent, ribozyme or triple helix component), and/or an agent which inhibits steroid-, toxin-, tumor necrosis factor-, interferon-gamma- or lipopolysaccharide-induced MIF release. The condition may be septic shock, inflammation, autoimmune disease, cachexia, virus or bacterium infection or toxicity of therapeutic steroids. A cell line or transgenic animal with inhibited MIF or MIF receptor gene expression is also new. A new monoclonal antibody binds immunospecifically to MIF. The new products and methods may be used for detection, therapy and studies involving MIF. (149pp)

DESCRIPTORS: cytokine-mediated toxicity therapy, macrophage inhibitory factor, macrophage inhibitory factor receptor-specific antisense, ribozyme, triple helix, transgenic animal, cell culture, monoclonal antibody prep. lymphokine cytokine protein sequence RNA enzyme DNA sequence hybridoma mammal septic shock inflammation autoimmune disease cachexia virus bacterium infection steroid toxicity antiinflammatory migration inhibitory factor-inhibitor migration inhibitory factor-antagonist migration inhibitory factor receptor-antagonist gene transfer (Vol.14, No.3)

SECTION: PHARMACEUTICALS-Clinical Genetic Techniques; GENETIC ENGINEERING AND FERMENTATION-Nucleic Acid Technology; CELL CULTURE-Animal Cell Culture; PHARMACEUTICALS-Antibodies (D7,A1,J1,D6)

Set	Items	Description
S1	7999	AU=BUCALA? OR AU=MITCHELL, R? OR AU=MITCHELL R?
OR AU=BERN-		HAGEN? OR AU=CALANDRA? OR AU=CERAMI?
S2	927	CYTOKIN? (5N) TOXIC?
S3	6640	MIF OR MIGRATION (3N) INHIBITOR?

S4	6	S2 AND S3
S5	87	S3 AND S1
S6	10	TOXIC? AND S5
S7	66	CYTOKIN? AND S5
S8	67	S7 OR S6
S9	7414	MIGRATION(3N) FACTOR?
S10	9738	S9. OR S3
S11	67	S8 AND S10
S12	67	S5 AND S11
S13	7	S2 AND S10
S14	69	S12 OR S13
S15	44	RD (unique items)
S16	16	S15 NOT (PY=1997 OR PY=1996 OR PY=1995)